D-Link®

DSB-V100
USB Video Capture Device

User's Manual

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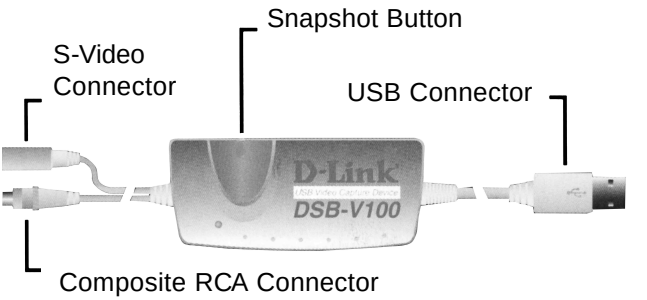
Introduction

Thank you for the purchase of the USB Video Capture Device. Applying state of the art technology, the USB Video Capture Device attached through either RCA jack or S-Video to a camcorder, VCR, DVD allowing the user to perform basic features of a USB grabber and comes with a snapshot button to capture images for multimedia applications. It can be used with any PC with Windows OS and comes bundled with a full line of software for video and image editing functions.

System Requirement

Pentium 133 or above CPU, Pentium II 350 recommended
32 MB of system RAM
One USB port
Microsoft Windows 98 or above
20MB hard disk space

USB Video Capture Device Diagram



Hardware installation

Plug in the USB adapter of the Video Capture Device into the USB port on your PC or any USB hub attached to the PC.

Note:
The Add New Hardware Wizard will start automatically once the Video Capture Device has been plugged in.

The LED indicator of the Video Capture Device will be active after the USB host controller detects the USB device properly.

Driver and Utility installation

Once the USB Video Capture Device has been installed, Windows will detect the device and prompt "**Add New Hardware Wizard**" dialog box on the screen. Click on **Next** button to continue.

Add New Hardware Wizard
This wizard searches for new drivers for:
USB Device
A device driver is a software program that makes a hardware device work.
< Back
Next >
Cancel

Select the "**Search for the best driver for your device**" and click on the **Next** button.

Add New Hardware Wizard
What do you want Windows to do?
Search for the best driver for your device. (Recommended).
Display a list of all the drivers in a specific location, so you can select the driver you want.
< Back
Next >
Cancel

Select the **"Floppy disk driver"** and insert the driver diskette that came with the USB Video Capture Device into the floppy drive. Then click on the **Next** button.

Add New Hardware Wizard
Windows will search for new drivers in its driver database on your hard drive, and in any of the following selected locations. Click Next to start the search.
Floppy disk drives
CD-ROM drive
Microsoft Windows Update
Specify a location:
A:\DLink
Browse...
< Back
Next >
Cancel

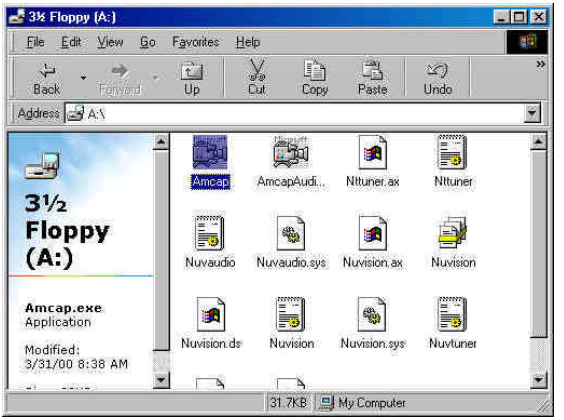
Click on the **Next** button, then Windows will copy all required files from the driver diskette to the system.

Add New Hardware Wizard
Windows driver file search for the device:
D-Link USB Video Capture Device.
Windows is now ready to install the best driver for this device. Click Back to select a different driver, or click Next to continue.
Location of driver:
A:\DLINK\NUVISION.INF
< Back
Next >
Cancel

Click on the **Finish** button to complete the driver installation.

Add New Hardware Wizard
D-Link USB Video Capture Device.
Windows has finished installing the software that your new hardware device requires.
< Back
Finish
Cancel

Once the driver installation is completed, the USB Video Capture Device can be executed by selecting the **"Amcap"** icon in **Drive A:** as illustrated below:



Note:

Please be reminded to activate the USB Video Capture Device. You need to select **"Device"** from the menu bar and in the selection item choose **"D-Link USB Video Capture Device"**. Also to initiate preview you need to select **"Options"** from the menu bar and in the selection item choose **"Preview"**.

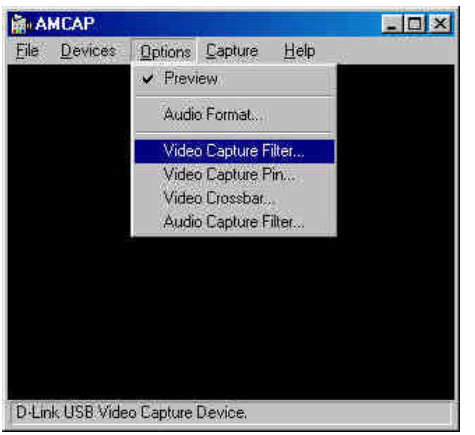
It is advisable to create a short-cut on your desk top for easier access in future usage.

Set Video Capture Filter, Video Pin & Crossbar

The driver provides “Video Capture Filter” and “Video Capture Pin” and “Video Crossbar” options to adjust quality, format for display and video source.

Set Video Capture Filter

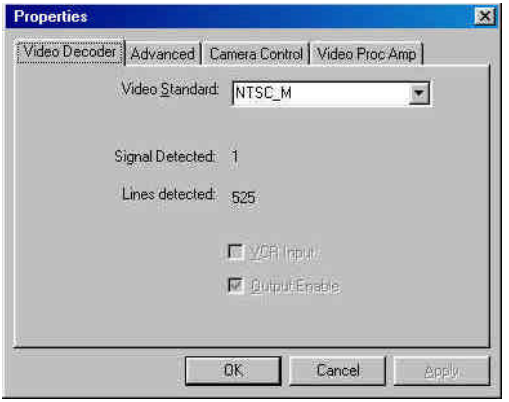
When you run the video application software, such as the USB Video Capture Device, select the **“Options”** menu then choose **“Video Capture Filter”**.



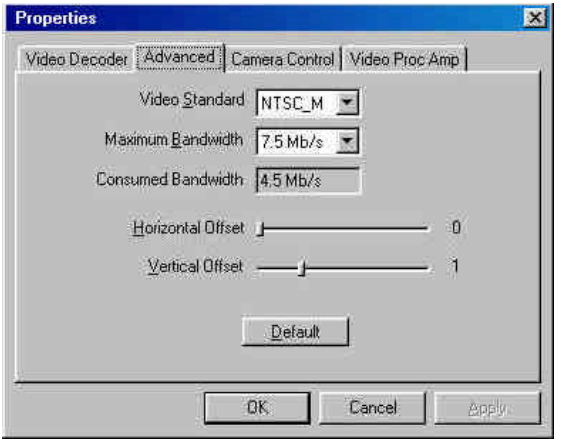
The Properties dialog box appears with 4 different choice of

1. Video Decoder
2. Advanced
3. Camera Control
4. Video Proc Amp

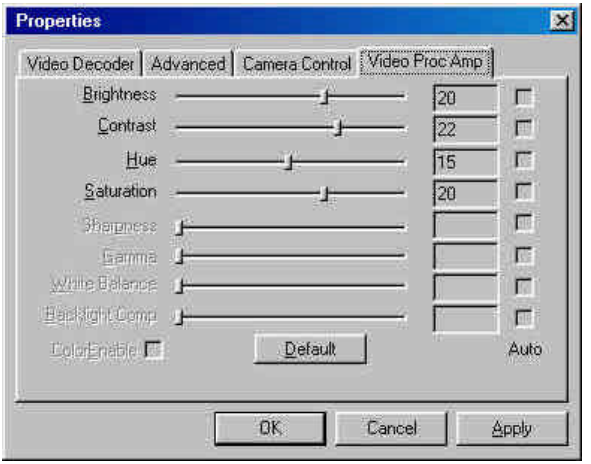
Under the **"Video Decoder"** tab it allows the options of **NTSC_M PAL_B** and **SECAM_K** for the Video Standard.



Under the **"Advanced"** tab it allows the options of selecting the Video Standard and the Maximum Bandwidth of USB transfer speed. It is advisable to set the Horizontal and Vertical Offset at default.



Under the **"Video Proc Amp"** tab it allows adjustment for the value of the following parameters, Brightness, Contrast, Hue, and Saturation to obtain the best color for your specific function.

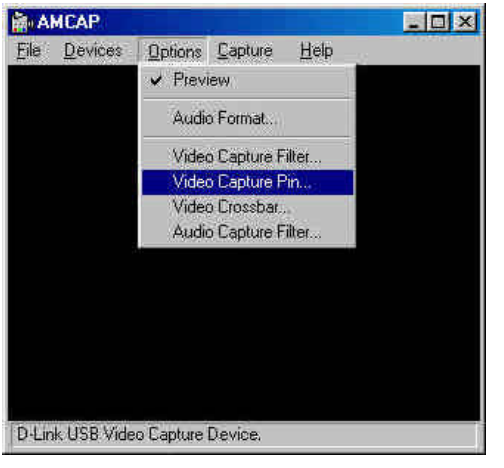


Note:

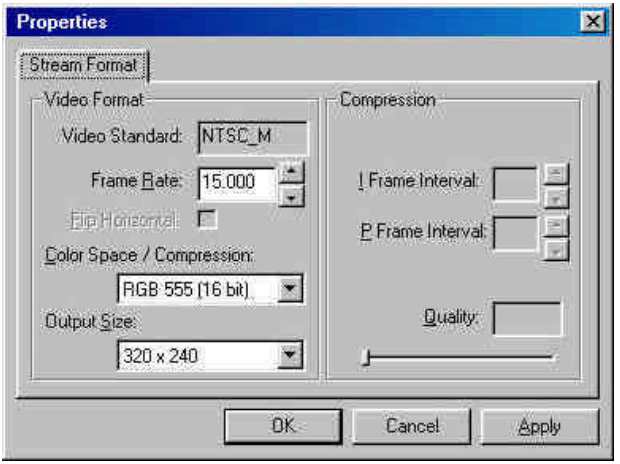
Keep in mind when changes are made, click the **Apply** button to refresh all the new details you have set and click **OK** return to the application.

Set Video Capture Pin

When you run the video application software, such as the USB Video Capture Device, select the **"Options"** menu then choose **"Video Capture Pin"**.



The Properties dialog box appears and under the Stream Format tab adjustments are allowed for the Frame Rate, Color Space/Compression, and Output Size for the desired option.



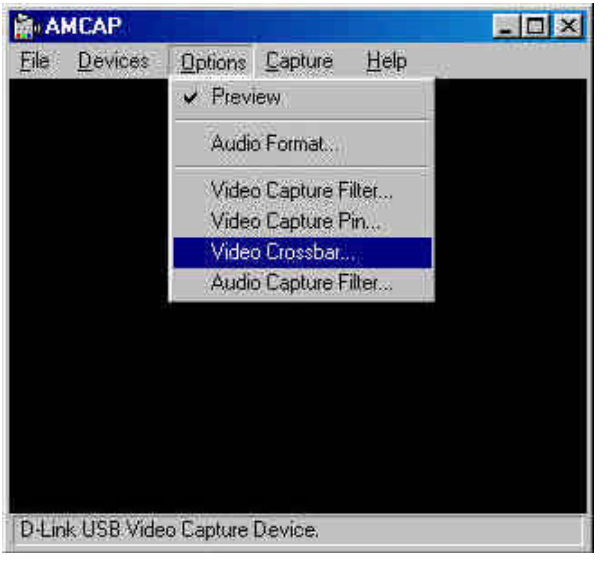
Frame Rate:
Frame rate is available from 1 to 30.

Color Space / Compression:
Select the Color Space / Compression at RGB 555 (16 bit), RGB 24, YUY2, or I420.

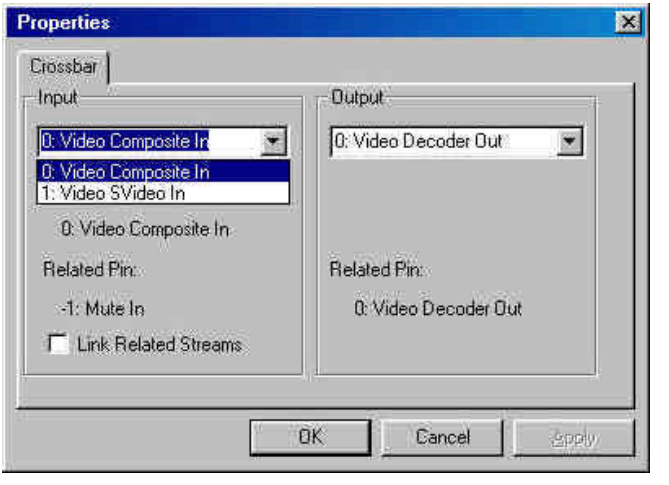
Output Size:
Select display frame size in CIF (352x288), QCIF (176x144), 320x240, 240x180 or 160x120.

Set Video Crossbar

When you run the video application software, such as the USB Video Capture Device, select the **"Options"** menu then choose **"Video Crossbar"**.



The Properties dialog box appears and under the Crossbar tab adjustments for video source is allowed and one can specify the video device which is connected to the USB Video Capture Device either the C-Video In(composite video) or S-Video In connector.



Snapshot

Taking a still image from the USB Video Capture Device is as follows:
The snapshot button on USB Video Capture Device is used to capture a still picture, this function must be supported by TWAIN driver. The TWAIN driver can be activated by the image editing software, like Windows Imaging.

In this case, the snapshot button will be enable only when the image editing software is activated.

Example:

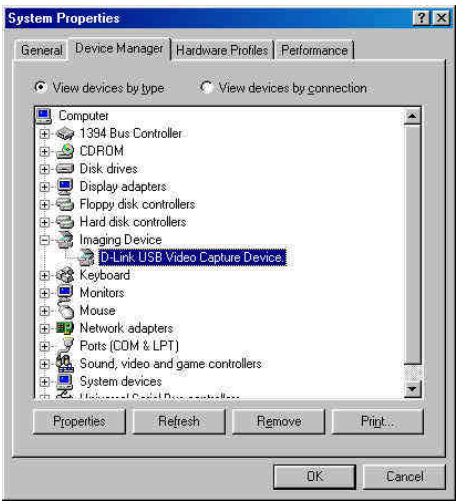
After running Windows Imaging, (start menu/program/accessory/imaging).

From the "file" on the menu bar, choose **"select scanner"** function to select the desired device for capturing images. After selecting, from the "file" menu bar choose **"Scan New"** and the user can capture still pictures by pressing the snapshot button or click the capture button on the screen.

Uninstalling The USB Video Capture Device

Note:
Make sure the USB Video Capture Device is plugged into the USB port on your PC or any USB hub attached to the PC when initiating the uninstall procedure.

To uninstall your USB Video Capture Device from the Start Menu / Settings / Control Panel / System / Device Manager. Under the Imaging Device select D-Link USB Video Capture Device and click on the **"Remove"** button.

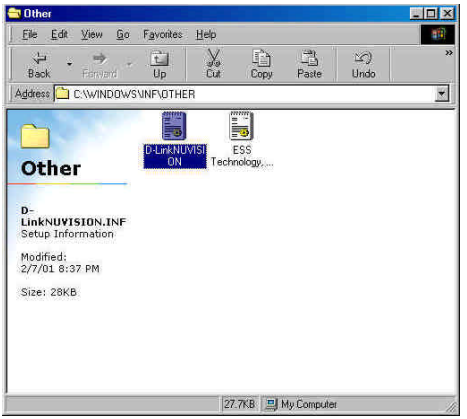


A new prompt will appear to confirm the above request. Click on the **"O.K"** button.

Confirm Device Removal
D-Link USB Video Capture Device.
Warning: You are about to remove this device from your system.
OK
Cancel

Now the USB Video Capture Device has been uninstalled.

Note:
To verify if all systems related to the USB Video Capture Device have been completely uninstalled, please check **Drive C:** under the **Windows** directory and under the sub-directory **inf** choose **other**. On the details side just delete the **D-LinkNUVISION** icon and you are done.



Specifications

Input Signal	NTSC,PAL or SECAM video signal
Output Signal	USB interface
Performance	30 fps @ CIF (352x288) resolution
Color Adjustment	Brightness, Contrast, Hue, Saturation
Snapshot Button	Yes
Driver	Win 98/Me, Windows 2000
Operating Temperature	10? ~ 50?
Storage Temperature	0? ~ 65?
Humidity	10% ~ 90% non-condensing

Connection Diagram

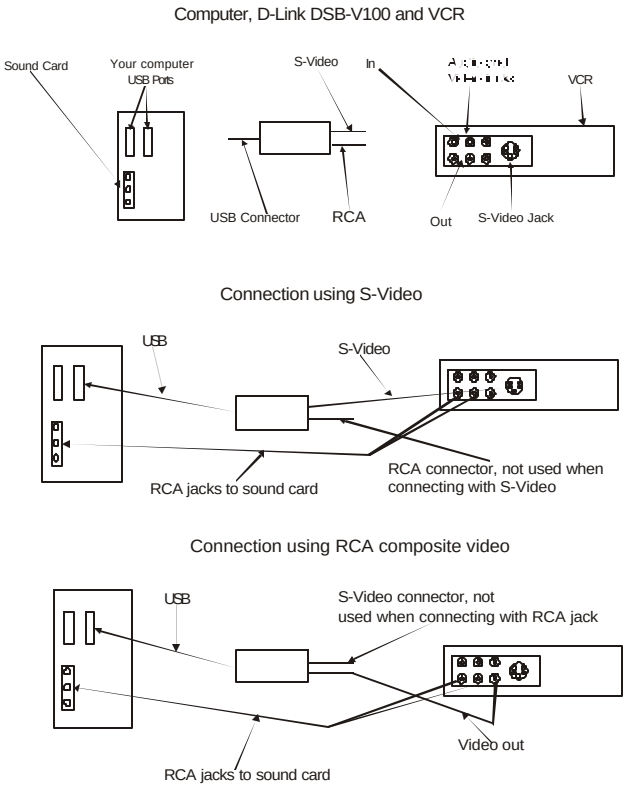


Figure 1: Computer, DSB-V00 and VCR

Installing Video Capture Application

Insert the CD into the CD-ROM drive and follow the on screen instructions. VideoStudio has a tutorial on the CD that covers the basics of using it. The following information is intended to help you get started using VideoStudio.

Set Audio and Video Source

You must set the source. The source is the device the audio and/ or video is coming from. Open VideoStudio and click on the G icon, shown in

Figure 2, to set the global preferences. Make sure the Global preferences are set correctly for the source you are using. Select D-Link DSB-V00, shown in Figure 3.

Figure 2: Global Commands

Global commands displays a list of preferences. Use the same procedure to change Global preferences. If a device is not working, check the Global settings and verify they are compatible with the device being used.

Figure 3: Global settings

You are now ready to begin creating your own movies. Click on Start, shown in

Figure 4 and follow the on screen instructions to begin capturing audio and video.

Figure 4: Start

Clicking on start brings up the "Starting your first video project" window, shown in Figure 5.
The other options along the top of the screen become available after you have made a video capture.

Note: Start the device you are recording from and begin the capture. The sound is not audible until you play it back using VideoStudio.

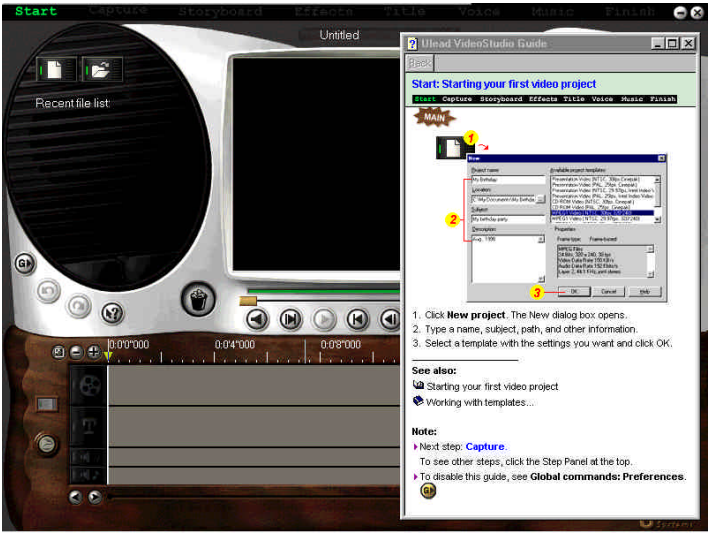


Figure 5: Starting your first video project

Troubleshooting

Start Ulead VideoStudio and verify that you can watch the video on your computer. Make sure the settings are correct. Incorrect settings will prevent you from seeing any video.

Verify that all cables are plugged in and connected properly.

Verify that the sound card is configured properly. Look at the settings and verify that nothing has been disabled or muted. If some settings are disabled or muted you won't be able to hear sound. Check the sound card documentation for specific configurations and adjustments.